



Middle East vanadium battery energy storage power





Overview

Saudi Aramco has achieved a world-first milestone by successfully operating a megawatt-scale renewable energy storage system to support gas production operations. As the Middle East accelerates efforts to meet its ambitious net-zero goals, VFlowTech, a Singapore-based innovator in long-duration energy storage, has developed a flow battery for solar storage in collaboration with Rongke Power - Credit: Rongke Power Aramco's MW-scale Iron-Vanadium flow battery is storing renewable solar energy to power gas operations in Saudi Arabia's extreme weather conditions Aramco has successfully commissioned an. SINGAPORE: As the Middle East accelerates efforts to meet its ambitious net-zero goals, VFlowTech, a Singapore-based innovator in long-duration energy storage, is stepping in as a critical catalyst for the region's energy transformation. It is the first deployment globally of an Iron-Vanadium (Fe/V) flow battery as a backup solar power source for gas well. Vanadium Redox Battery Vrb Market size was valued at USD 0.58 Billion in 2024 and is projected to reach USD 1.6% What Is the Middle East and Africa Vanadium Redox Battery (VRB)?

Uses, How It Works & Top Companies (2025) The Vanadium Redox Battery (VRB) is.



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[VFlowTech Expands into Middle East to Power Net-Zero Goals with](#)

Singapore's VFlowTech enters the Middle East with \$20.5M in funding to deploy vanadium battery storage solutions, supporting regional net-zero targets.

[Applications of Energy Storage in the Middle East Market](#)

Application scenarios encompass large-scale power station storage (such as molten salt thermal storage and battery energy storage), emerging smart city energy management (e.g., NEOM), and supporting ...



[Vanadium Battery for Energy Storage Decoded: Comprehensive ...](#)

Discover the booming vanadium battery market for energy storage. This in-depth analysis reveals market size, growth projections (CAGR 15%), key drivers, trends, and leading companies, ...



[Aramco's Renewable Energy Breakthrough: Flow Battery Powers Gas](#)

Aramco has achieved a global milestone by commissioning a megawatt-scale renewable energy storage system, using an Iron-Vanadium (Fe/V) flow battery to power gas production activities.



[The Future of Battery Market in the Middle East & Africa](#)

In Abu Dhabi, Masdar has announced a \$6 billion project combining 5 GW of solar capacity with 19 GWh of battery storage, aiming to provide 1 GW of continuous power output, making it the largest solar ...



[Middle East and Africa Vanadium Redox Battery Vrb Market](#)

Unlike traditional batteries, VRBs operate through liquid electrolytes stored in external tanks, allowing for scalable and long-duration energy storage. The system consists of electrochemical



[Aramco commissions iron-vanadium flow battery for energy storage](#)

It is the first deployment globally of an Iron-Vanadium (Fe/V) flow battery as a backup solar power source for gas well operations.



[Aramco's World First in Sustainable Energy Storage](#)



Aramco's MW-scale Iron-Vanadium flow battery is storing renewable solar energy to power gas operations in Saudi Arabia's extreme weather conditions.



[VFlowTech Expands into the Middle East with Vanadium Energy ...](#)

VFlowTech is in active conversations with large utilities in UAE and Saudi Arabia to deploy their proprietary Vanadium BESS, co-located with solar farms to reduce curtailment and for ...

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